

PRESTRESSED CORED SLABS

(11-25-96)

~~The prestressed cored slab members shall meet the requirements for prestressed concrete member as specified in the Standard Specifications with the following exceptions and additions.~~

~~Instead of Bearing Plate Assemblies and Preformed Bearing Pads, Elastomeric Bearings will be used.~~

The top surface of the cored slab sections shall be given a broom finish. No surface finish will be required for sides and bottom of the slab sections except the exposed side of the exterior slab sections shall have all voids filled with grout. The resulting surface finish shall have essentially the same color and surface finish as the surrounding concrete.

1078-14

Bottom edges on ends and sides of all slab sections, top outside edges of exterior slab sections and acute corners of slab sections shall be chamfered 3/4 inch. Top edges on ends of all sections shall be rounded with a 1/4" finishing tool. Top edges on all slab sections along shear keys shall have square corners. Vertical edges at ends of slab sections shall not be chamfered.

In order to be assured of a good, neat field fit, cored slab spans shall be assembled by the manufacturer in his yard and pieces matchmarked. Pieces must fit together neatly and in a workmanlike manner.

1078-15(A)

In erecting the prestressed cored slabs, the 1/2" diameter transverse post tensioning strands shall be placed and tensioned to 30,000 lbs in each span. After the 1/2" diameter transverse strand has been tensioned in a span and before any equipment, material or barrier rail is placed on the span, the shear keys and dowel holes shall be filled with the non-shrink grout and cured for 3 days minimum, and this grout shall have reached a compressive strength of 3000 psi.

The Contractor will be allowed with the approval of the Engineer to place material and equipment on the cored slab spans after the transverse strands have been tensioned to 30,000 lbs, and shear keys have been cured for 3 days minimum and have reached a compressive strength of 3000 psi. Cranes or other equipment exceeding the legal load limit shall be supported on mats.

The Contractor must submit a detailed drawing for review to the Engineer for the mats he intends to place on the cored slabs. This drawing shall give a complete description of the equipment that the Contractor intends to place on the mats.

430-6

The transverse strands shall be greased and then placed in a non-corrosive 1/2" diameter, 1/16" minimum wall thickness black polyethylene pipe meeting the requirements of ASTM D2239. The grease and pipe shall not be applied in the areas of the recesses at the ends of the tensioning strands where grout is to be applied.

No payment will be made for any materials and work necessary in the construction of the mats.

The quantity of prestressed concrete cored slabs to be paid for will be the linear feet of prestressed concrete cored slabs shown on the plans.

430-8

430-9

The quantity of prestressed concrete cored slabs, as described above, will be paid for at the contract unit price per linear foot for "3'-0" x 1'-____" Prestressed Concrete Cored Slabs". ~~This price and payment shall be full compensation for furnishing and placing the prestressed concrete cored slabs and includes all materials, tools, equipment, labor and incidentals necessary to complete this work.~~